# PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2002-371594

(43)Date of publication of application: 26.12.2002

(51)Int.CI.

E02F 9/26

(21)Application number: 2001-182354

(71)Applicant: KOMATSU LTD

(22)Date of filing:

15.06.2001

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KATO HAJIME HAGA MASAYA

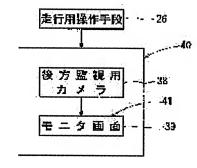
## (54) CONSTRUCTION EQUIPMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide construction equipment allowing an operator to increase the safety of working by monitoring the rearward thereof when traveling rearwards.

SOLUTION: This construction equipment comprises a carrier and an upper structure swingably installed on the carrier. A traveling operation means 26 is operated to move the carrier forward and backward. A rear monitoring camera 38 is installed on the upper structure. An image from the rear monitoring camera 38 is displayed on a monitoring screen 39 by operating the traveling operation means 26.

この発明の建設機械の実施の形態を示す箇路ブロック図



26: 走行用操作手段 40: 30: 後方監視用カメラ 41;

#### **LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

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- 3.In the drawings, any words are not translated.

#### **CLAIMS**

## [Claim(s)]

[Claim 1] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [ revolution ]. It is the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26). The construction equipment characterized by displaying the image from the above-mentioned camera for a back monitor (38) on monitor display (39) when the camera for a back monitor (38) is formed in the above-mentioned revolving super-structure (3) and the above-mentioned actuation means for transit (26) operates it.

[Claim 2] The construction equipment of claim 1 characterized by performing this change by actuation of the above-mentioned actuation means for transit (26) while enabling a change with the 1st mode which displays the image from the above-mentioned camera for a back monitor (38) on the above-mentioned monitor display (39), and the 2nd mode which displays a car-body condition on the above-mentioned monitor display.

[Claim 3] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [ revolution ]. While being the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26) and forming the camera for a back monitor (38) in the above-mentioned revolving super-structure (3) The construction equipment characterized by forming the switch (48) with which monitor display (39) will be in the image display condition from the above-mentioned camera for a back monitor (38) in the above-mentioned actuation means for transit (26).

[Translation done.]

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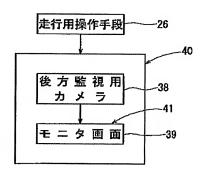
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- 3.In the drawings, any words are not translated.

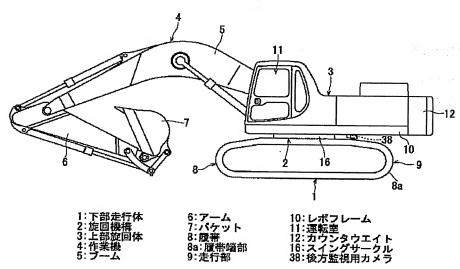
## **DRAWINGS**

[Drawing 1] この発明の建設機械の実施の形態を示す簡略ブロック図



## [Drawing 2]

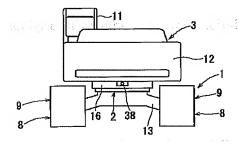
この発明の建設機械の側面図



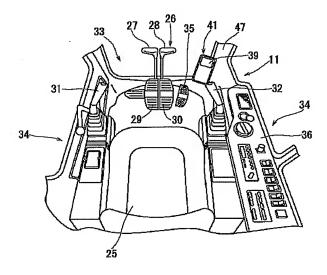
## [Drawing 3]

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#### この発明の建設機械の背面図



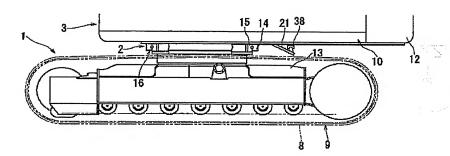
# [Drawing 4] この発明の建設機械の運転室の斜視図



## [Drawing 5]

1.1.

## この発明の建設機械の要部側面図



1:下部走行体 2:旋回機構 3:上部旋回体 8:開帯 10: レボフレーム 12: カウンタウエイト 13: トラックフレーム

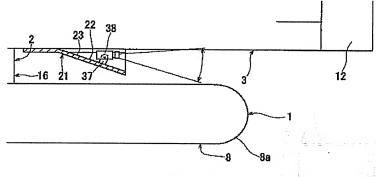
16:スイングサークル 21:アンダーカバー 38:後方監視用カメラ

14:アウ β 15:イン

15:インナロ

# [Drawing 8]

#### この発明の建設機械の要部簡略断面図



1:下部走行体 2:旋回機構 3:上部旋回体 8:履帯

16:スイングサークル 21:アンダーカバー 22:テーパ面 23:川所

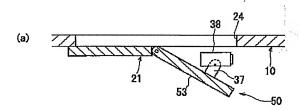
8a: 履帯端部 12:カウンタウエイト

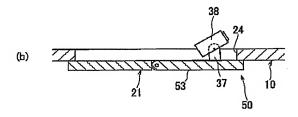
37.又好件 38:後方監視用カメラ

# [Drawing 12]

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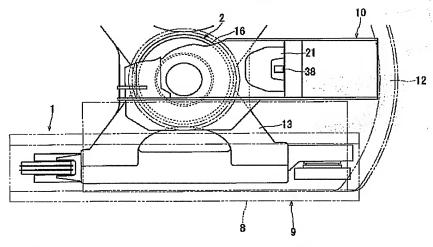
#### この発明の建設機械の別の実施の形態を示す要部断面図





# [Drawing 6]

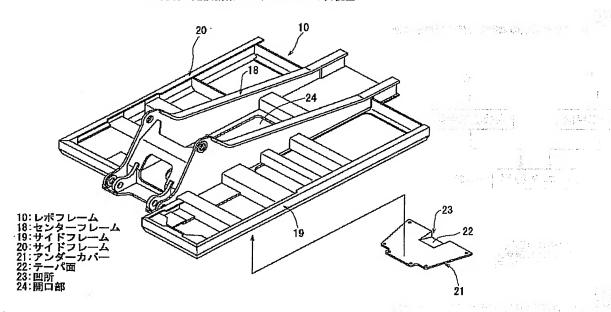
#### この発明の建設機械の要部平面図



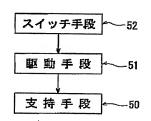
[Drawing 7]

6 un (4)

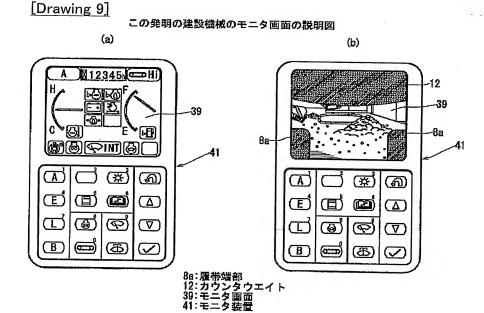
この発明の建設機械のレボフレームの斜視図



[Drawing 13] この発明の発明の別の実施の形態の簡略ブロック図

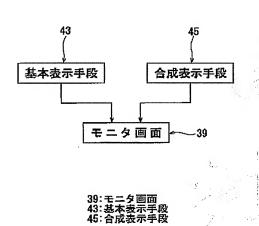


50:支持手段 51:駆動手段 52:スイッチ手段

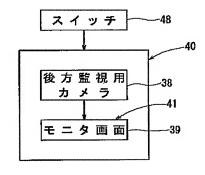


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[Drawing 10] この発明の建設機械のモニタ装置の制御部の簡略プロック図



[Drawing 11] この発明の建設機械の他の実施の形態を示す簡略ブロック図



38:後方監視用カメラ 41:モニタ製 39:モニタ画面 48:スイッラ 40:後方監視手段

(d)

[Translation done.]